

## ABSTRACT OF THE DISCLOSURE

1        A method and network subsystem for providing on demand end  
2 to end Quality of Service (QoS) in a dynamic manner, use a  
3 combination of Resource Reservation Protocol (RSVP), load  
4 control protocol (and its successors) and Bandwidth Brokers  
5 (BBs) which communicate using a predetermined protocol. The  
6 predetermined protocol may be one of Common Open Policy Service  
7 Protocol (COPS) and Simple Network Management Protocol (SNMP)  
8 for direct communication by the BBs. The network subsystem  
9 might also include differentiated services architecture  
10 (Diffserv) which might comprise a Diffserv domain including  
11 Border Routers (BRs) and Core Routers (CRs). The BBs may obtain  
12 resource availability information by communicating only with the  
13 BRs to the exclusion of CRs. The BBs may optionally have the  
14 capability of using an RSVP aggregation protocol and may have  
15 the ability to store and manage RSVP aggregation status. The  
16 method and network subsystem may additionally use Integrated  
17 Service Architecture (Intserv) which will enable achieving  
18 interoperability between Intserv and Diffserv through the use of  
19 an edge router on a bandwidth broker aggregator.